

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method comprising:

installing a program onto a target machine, the program having intermediate representation;

executing the program using the intermediate representation and an initial profile data; and

generating a current profile data;

comparing the current profile data with the initial profile data; and

responsive to a change in profile data collected while the program executes which exceeds a predetermined threshold, recompiling the program while the target machine is idle.

recompiling the intermediate representation to optimize the program when the current profile data in comparison with the initial profile data has exceeded a predetermined threshold.

2. (Currently Amended) The method of claim of claim 1, wherein said installing further comprises:

installing a continuous compiler;

installing a runtime monitor;

copying ~~an~~ the intermediate representation of a source file to the target machine;

building a the initial profile database data; and

B6

compiling the intermediate representation to create an executable file.

3. (Currently Amended) The method of claim 1, wherein said executing further comprises:

running an executable version of the program;

collecting samples of process information at a controlled rate; and

while the target machine is idle, generating binary level and high level profiles.

4. (Currently Amended) The method of claim 1, wherein recompiling further comprises customizing compiler optimizations based on the current profile data generated during program execution.

Claims 5-10 (Cancelled)

11. (Currently Amended) A ~~computer readable~~ machine-readable medium having stored thereon data representing sequences of instructions, the sequences of instructions which, when executed by a ~~processor~~ machine, cause the ~~processor~~ machine to perform the steps of:

installing a program onto a target machine, the program having intermediate representation;

executing the program using the intermediate representation and an initial profile data; and

generating a current profile data;

comparing the current profile data with the initial profile data; and

~~responsive to a change in profile data collected while the program executes which exceeds a predetermined threshold, recompiling the program while the target machine is idle.~~

recompiling the intermediate representation to optimize the program when the current profile data in comparison with the initial profile data has exceeded a predetermined threshold.

12. (Currently Amended) The ~~computer readable~~ machine-readable medium of claim of claim 11, wherein ~~said~~ installing further comprises:
installing a continuous compiler;
installing a runtime monitor;
copying ~~an~~ the intermediate representation of ~~a source~~ file to the target machine;
building ~~a~~ the initial profile database ~~data~~; and
compiling the intermediate representation to create an executable file.
13. (Currently Amended) The ~~computer readable~~ machine-readable medium of claim 11, wherein ~~said~~ executing further comprises:
running an executable version of the program;
collecting samples of process information at a controlled rate; and
while the target machine is idle, generating binary level and high level profiles.
14. (Currently Amended) The ~~computer readable~~ machine-readable medium of claim 11, wherein recompiling further comprises customizing compiler optimizations based on the current profile data generated during program execution.

Claims 15-20 (Cancelled)

21. (Currently Amended) A system, comprising:

a target machine having a storage device, the storage device having stored therein
a routine for transparent continuous compilation; and

~~a processor coupled to with the storage device which when executing the routine;~~
the processor to:

installs install a program onto a the target machine, the program having
intermediate representation and a continuous compiler;
executes execute the program using the intermediate representation and an
initial profile data; and

generate a current profile data;

compare the current profile data with the initial profile data; and

~~responsive to a change in profile data collected while the program~~

~~executes which exceeds a predetermined threshold, recompiles the~~
~~program while the target machine is idle.~~

recompile the intermediate representation to optimize the program when
the current profile data in comparison with the initial profile data
has exceeded a predetermined threshold.

22. (Currently Amended) The system of claim 21, wherein said installation further comprises:

installing a continuous compiler;

installing a runtime monitor;

copying ~~an~~ the intermediate representation ~~of a source file~~ to the target machine;

building ~~a~~ the initial profile database data; and

compiling the intermediate representation to create an executable file.

23. Currently Amended) The system of claim 21, wherein said execution further comprises:

running an executable version of the program;

collecting samples of process information at a controlled rate; and

while the target machine is idle, generating binary level and high level profiles.

24. (Currently Amended) The system of claim 21, wherein recompilation further comprises customizing compiler optimizations based on the current profile data generated during program execution.

Claims 25-30 (Cancelled)

31. (New) An apparatus, comprising:

a storage medium,

a processor coupled with the storage medium, the processor to:

install a program onto the target machine, the program having

intermediate representation;

execute the program using the intermediate representation and an initial profile data;

generate a current profile data;

compare the current profile data with the initial profile data; and

recompile the intermediate representation to optimize the program when the current profile data in comparison with the initial profile data has exceeded a predetermined threshold.

b4

32. (New) The apparatus of claim of claim 31, wherein installation further comprises:

installing a continuous compiler;

installing a runtime monitor;

copying the intermediate representation to the target machine;

building the initial profile data; and

compiling the intermediate representation to create an executable file.

33. (New) The apparatus of claim 31, wherein execution further comprises:

running an executable version of the program;

collecting samples of process information at a controlled rate; and

while the target machine is idle, generating binary level and high level profiles.

34. (New) The apparatus of claim 31, wherein recompilation further comprises

customizing compiler optimizations based on the current profile data generated during program execution.